

## Prealgebra ~ Lesson 11

Work the following examples as you listen to the recorded lecture.

### Subtracting Integers

<b>Sign Rules for Adding and Subtracting</b>	
1. The sign rules we learned below still work for subtraction.	
2. Subtracting a positive is like adding a negative: $6 - 3$ is the same as $6 + (-3)$	
3. Two negative signs together can be turned into a positive: $5 - (-3)$ is the same as $5 + 3$	
<b>Like Signs (+,+ or -, -)</b>	<b>Unlike Signs (+,- or -,+)</b>
1. Add the numbers	1. Subtract the numbers
2. Keep the sign	2. Keep the sign of the larger (absolute value)

Example 1:

$$-8 - (-8)$$

Example 2:

$$3 - 15$$

Example 3:

$$84 - (-20)$$

Example 4:

$$8 - 9$$

*Translate and then simplify each phrase:*

Example 5: Subtract 10 from -22.

Example 6: Find the difference of -8 and -13.

Example 7: Subtract -12 from 2.

*Add or subtract the following problems:*

Example 8:  $-15 + (-8) - 4$

Example 9:  $5 + (-18) - (-21) - 2$